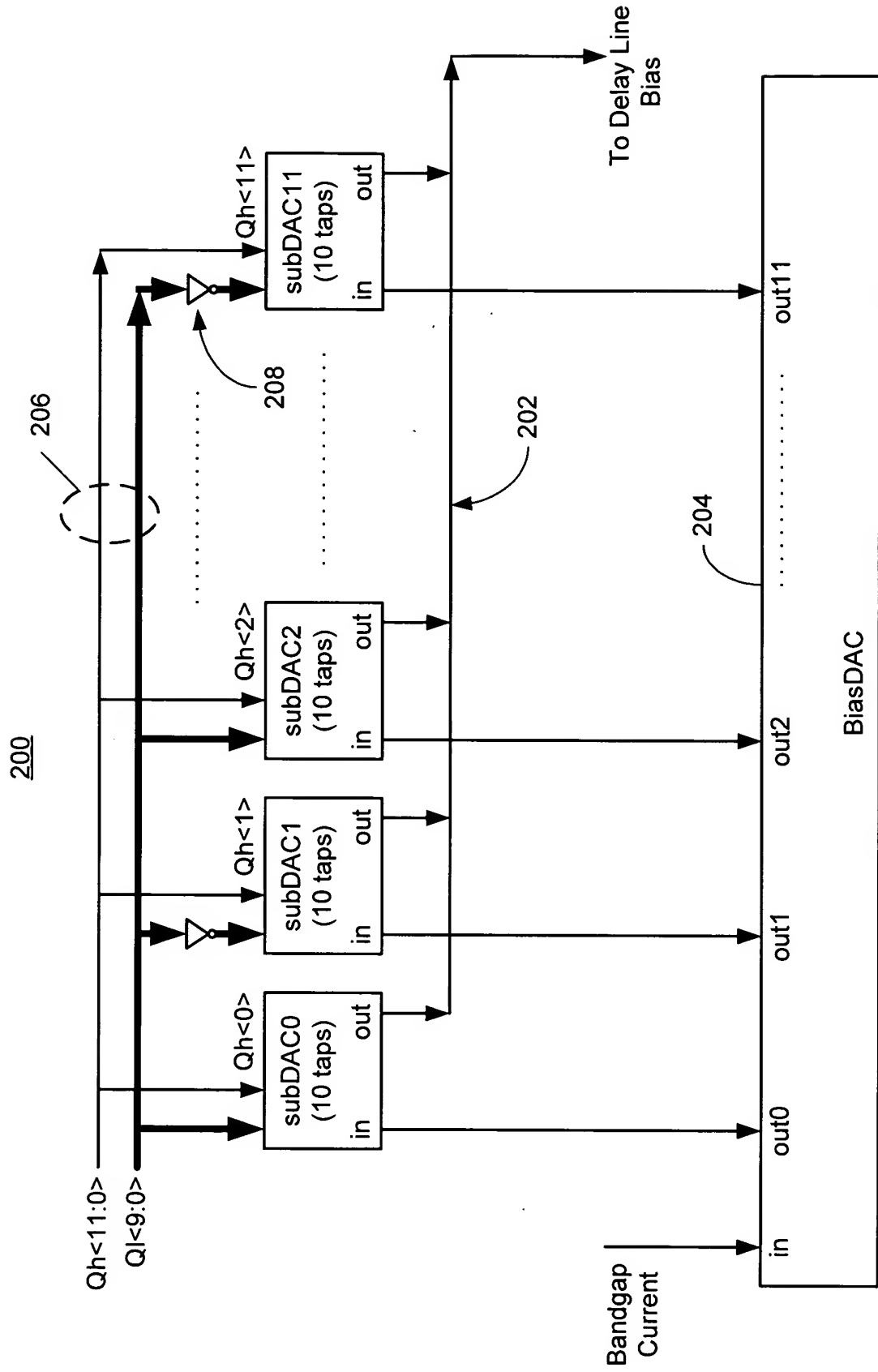


**FIG. 1**



**FIG. 2**

Code #	Qh<11:0>													Ql<9:0>													Current ((Iout-Imin)/Ibg)	Total Current (Iout/Imin)
	11	10	9	8	7	6	5	4	3	2	1	0		9	8	7	6	5	4	3	2	1	0					
0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0		0	1			
1	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	1		1	1.01			
2	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	1	1		2.01	1.0201			
3	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	1	1		3.0301	1.030301			
4	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	1	1	1		4.060401	1.04060401			
5	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	1	1	1	1		5.10100501	1.0510100501			
6	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	1	1	1	1	1		6.15201506	1.0615201506			
7	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	1	1	1	1	1		7.213535211	1.07213535211			
8	0	0	0	0	0	0	0	0	0	0	0	0			0	0	1	1	1	1	1	1		8.285670563	1.082856706			
9	0	0	0	0	0	0	0	0	0	0	0	0			0	1	1	1	1	1	1	1		9.368527268	1.093685273			
10	0	0	0	0	0	0	0	0	0	0	0	0			1	1	1	1	1	1	1	1		10.46	1.1046			
11	0	0	0	0	0	0	0	0	0	0	0	0			1	1	1	1	1	1	1	0		11.56462213	1.115646221			
12	0	0	0	0	0	0	0	0	0	0	0	0			1	1	1	1	1	1	0	0		12.68029047	1.126802905			
13	0	0	0	0	0	0	0	0	0	0	0	0			1	1	1	1	1	0	0	0		13.8071155	1.138071155			
14	0	0	0	0	0	0	0	0	0	0	0	0			1	1	1	1	1	0	0	0		14.94520878	1.149452088			
15	0	0	0	0	0	0	0	0	0	0	0	0			1	1	1	1	0	0	0	0		16.094683	1.16094683			
16	0	0	0	0	0	0	0	0	0	0	0	0			1	1	1	0	0	0	0	0		17.25565195	1.17255652			
17	0	0	0	0	0	0	0	0	0	0	0	0			1	1	1	0	0	0	0	0		18.4282306	1.184282306			
18	0	0	0	0	0	0	0	0	0	0	0	0			1	1	0	0	0	0	0	0		19.61253503	1.19612535			
19	0	0	0	0	0	0	0	0	0	0	0	0			1	0	0	0	0	0	0	0		20.8086825	1.208086825			
20	0	0	0	0	0	0	0	0	0	0	0	1			0	0	0	0	0	0	0	0		22.02	1.2202			
21	0	0	0	0	0	0	0	0	0	0	0	1			0	0	0	0	0	0	0	1		23.24019004	1.2324019			
22	0	0	0	0	0	0	0	0	0	0	0	1			0	0	0	0	0	0	1	1		24.47258198	1.24472582			
23	0	0	0	0	0	0	0	0	0	0	0	1			0	0	0	0	0	0	1	1		25.71729784	1.257172978			
24	0	0	0	0	0	0	0	0	0	0	0	1			0	0	0	0	0	1	1	1		26.97446086	1.269744609			
25	0	0	0	0	0	0	0	0	0	0	0	1			0	0	0	0	1	1	1	1		28.24419551	1.282441955			
26	0	0	0	0	0	0	0	0	0	0	0	1			0	0	0	0	1	1	1	1		29.5266275	1.295266275			
27	0	0	0	0	0	0	0	0	0	0	0	1			0	0	0	1	1	1	1	1		30.82188382	1.308218838			
28	0	0	0	0	0	0	0	0	0	0	0	1			0	0	1	1	1	1	1	1		32.1300927	1.321300927			
29	0	0	0	0	0	0	0	0	0	0	0	1			0	1	1	1	1	1	1	1		33.45138366	1.334513837			
30	0	0	0	0	0	0	0	0	0	0	0	1			1	1	1	1	1	1	1	1		34.78	1.3478			
31	0	0	0	0	0	0	0	0	0	0	0	1			1	1	1	1	1	1	1	0		36.12784892	1.361278489			
32	0	0	0	0	0	0	0	0	0	0	0	1			1	1	1	1	1	0	0	0		37.48917632	1.374891763			
33	0	0	0	0	0	0	0	0	0	0	0	1			1	1	1	1	1	0	0	0		38.864117	1.38864117			
34	0	0	0	0	0	0	0	0	0	0	0	1			1	1	1	1	1	0	0	0		40.25280708	1.402528071			
35	0	0	0	0	0	0	0	0	0	0	0	1			1	1	1	1	0	0	0	0		41.65538407	1.416553841			
36	0	0	0	0	0	0	0	0	0	0	0	1			1	1	1	0	0	0	0	0		43.07198683	1.430719868			
37	0	0	0	0	0	0	0	0	0	0	0	1			1	1	0	0	0	0	0	0		44.50275561	1.445027556			
38	0	0	0	0	0	0	0	0	0	0	0	1			1	1	0	0	0	0	0	0		45.94783208	1.459478321			
39	0	0	0	0	0	0	0	0	0	0	0	1			1	0	0	0	0	0	0	0		47.40735932	1.474073593			

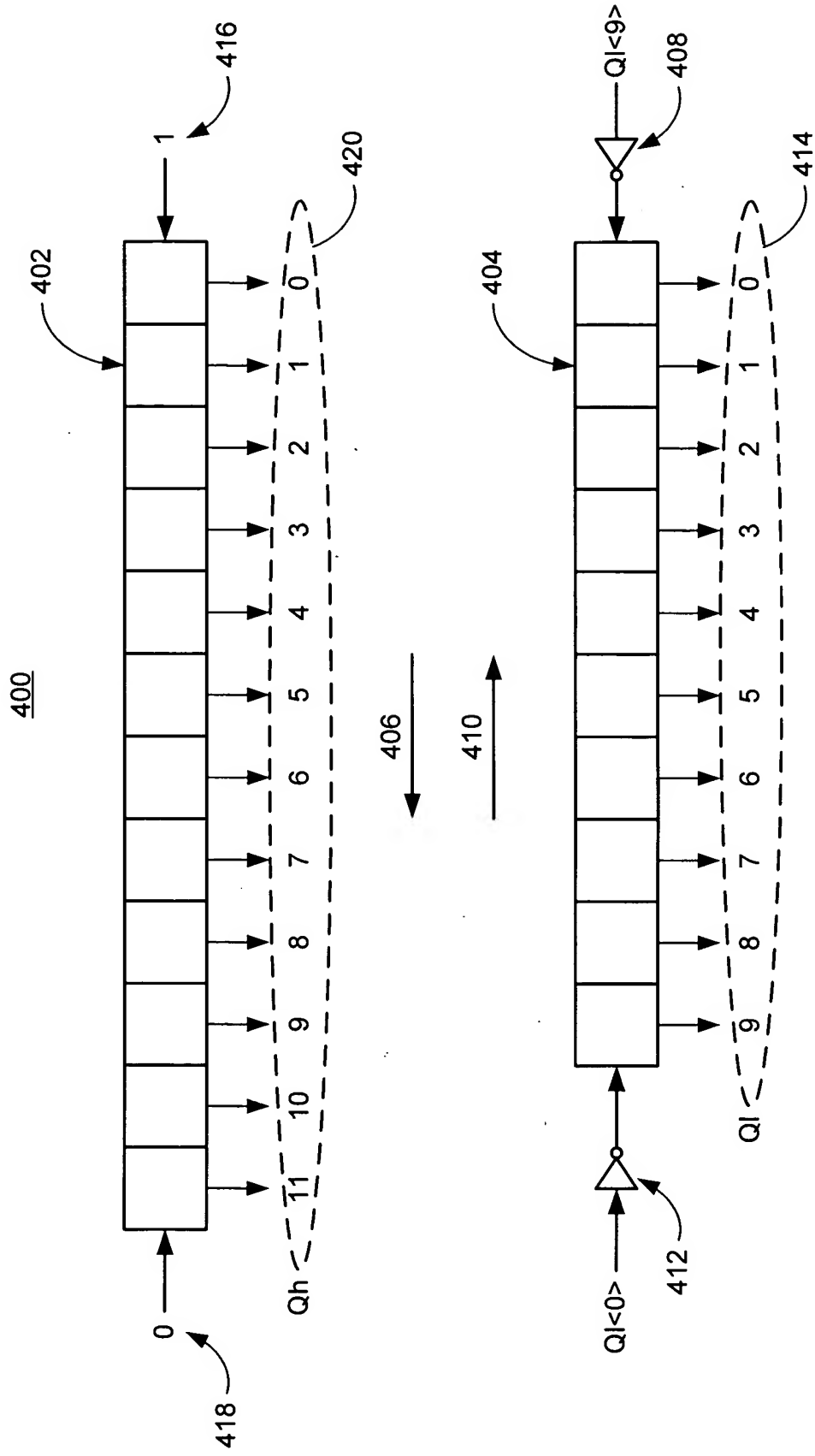
Fig. 3A

Code #	Qh<11:0>											Ql<9:0>											Current ((Iout-Imin)/Ibg)	Total Current (Iout/Imin)
	11	10	9	8	7	6	5	4	3	2	1	0	9	8	7	6	5	4	3	2	1	0		
40	0	0	0	0	0	0	0	0	1	1	1	1		0	0	0	0	0	0	0	0	0	48.89	1.4889
41	0	0	0	0	0	0	0	0	1	1	1	1		0	0	0	0	0	0	0	0	1	50.37886373	1.503788637
42	0	0	0	0	0	0	0	0	1	1	1	1		0	0	0	0	0	0	0	1	1	51.8826161	1.518826161
43	0	0	0	0	0	0	0	0	1	1	1	1		0	0	0	0	0	0	1	1	1	53.401406	1.53401406
44	0	0	0	0	0	0	0	0	1	1	1	1		0	0	0	0	0	1	1	1	1	54.93538379	1.549353838
45	0	0	0	0	0	0	0	0	1	1	1	1		0	0	0	0	1	1	1	1	1	56.48470136	1.564847014
46	0	0	0	0	0	0	0	0	1	1	1	1		0	0	0	1	1	1	1	1	1	58.04951211	1.580495121
47	0	0	0	0	0	0	0	0	1	1	1	1		0	0	1	1	1	1	1	1	1	59.62997097	1.59629971
48	0	0	0	0	0	0	0	0	1	1	1	1		0	0	1	1	1	1	1	1	1	61.22623441	1.612262344
49	0	0	0	0	0	0	0	0	1	1	1	1		0	1	1	1	1	1	1	1	1	62.83846049	1.628384605
50	0	0	0	0	0	0	0	1	1	1	1	1		1	1	1	1	1	1	1	1	1	64.46	1.6446
51	0	0	0	0	0	0	0	1	1	1	1	1		1	1	1	1	1	1	1	1	0	66.10463182	1.661046318
52	0	0	0	0	0	0	0	1	1	1	1	1		1	1	1	1	1	1	1	0	0	67.76570996	1.6776571
53	0	0	0	0	0	0	0	1	1	1	1	1		1	1	1	1	1	1	0	0	0	69.44339888	1.694433989
54	0	0	0	0	0	0	0	1	1	1	1	1		1	1	1	1	1	0	0	0	0	71.13786469	1.711378647
55	0	0	0	0	0	0	0	1	1	1	1	1		1	1	1	1	0	0	0	0	0	72.84927516	1.728492752
56	0	0	0	0	0	0	0	1	1	1	1	1		1	1	1	0	0	0	0	0	0	74.57779974	1.745777997
57	0	0	0	0	0	0	0	1	1	1	1	1		1	1	1	0	0	0	0	0	0	76.32360956	1.763236096
58	0	0	0	0	0	0	0	1	1	1	1	1		1	1	0	0	0	0	0	0	0	78.08687747	1.780868775
59	0	0	0	0	0	0	0	1	1	1	1	1		1	0	0	0	0	0	0	0	0	79.86777807	1.798677781
60	0	0	0	0	0	0	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	81.67	1.8167
61	0	0	0	0	0	0	1	1	1	1	1	1		0	0	0	0	0	0	0	0	1	83.4866967	1.834866967
62	0	0	0	0	0	0	1	1	1	1	1	1		0	0	0	0	0	0	0	1	1	85.32156036	1.853215604
63	0	0	0	0	0	0	1	1	1	1	1	1		0	0	0	0	0	0	1	1	1	87.17477267	1.871747727
64	0	0	0	0	0	0	1	1	1	1	1	1		0	0	0	0	1	1	1	1	1	89.04651709	1.890465171
65	0	0	0	0	0	0	1	1	1	1	1	1		0	0	0	0	1	1	1	1	1	90.93697896	1.90936979
66	0	0	0	0	0	0	1	1	1	1	1	1		0	0	0	1	1	1	1	1	1	92.84634545	1.928463454
67	0	0	0	0	0	0	1	1	1	1	1	1		0	0	0	1	1	1	1	1	1	94.7748056	1.947748056
68	0	0	0	0	0	0	1	1	1	1	1	1		0	0	1	1	1	1	1	1	1	96.72255036	1.967225504
69	0	0	0	0	0	0	1	1	1	1	1	1		0	1	1	1	1	1	1	1	1	98.68977256	1.986897726
70	0	0	0	0	0	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	100.68	2.0068
71	0	0	0	0	0	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	0	102.6867634	2.026867634
72	0	0	0	0	0	1	1	1	1	1	1	1		1	1	1	1	1	1	1	0	0	104.7135944	2.047135944
73	0	0	0	0	0	1	1	1	1	1	1	1		1	1	1	1	1	1	0	0	0	106.7606937	2.067606937
74	0	0	0	0	0	1	1	1	1	1	1	1		1	1	1	1	1	0	0	0	0	108.828264	2.08828264
75	0	0	0	0	0	1	1	1	1	1	1	1		1	1	1	1	0	0	0	0	0	110.91651	2.1091651
76	0	0	0	0	0	1	1	1	1	1	1	1		1	1	1	0	0	0	0	0	0	113.0256385	2.130256385
77	0	0	0	0	0	1	1	1	1	1	1	1		1	1	1	0	0	0	0	0	0	115.1558582	2.151558582
78	0	0	0	0	0	1	1	1	1	1	1	1		1	1	0	0	0	0	0	0	0	117.3073802	2.173073802
79	0	0	0	0	0	1	1	1	1	1	1	1		1	0	0	0	0	0	0	0	0	119.4804173	2.194804173

Fig. 3B

Code #	Qh<11:0>													Ql<9:0>												Current ((Iout-Imin)/Ibg)	Total Current (Iout/Imin)
	11	10	9	8	7	6	5	4	3	2	1	0		9	8	7	6	5	4	3	2	1	0				
80	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	121.67	2.2167			
81	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	0	0	1	123.8867152	2.238867152			
82	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	0	1	1	126.1255976	2.261255976			
83	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	0	1	1	128.3868688	2.283868688			
84	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	1	1	1	130.6707527	2.306707527			
85	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	1	1	1	1	132.9774754	2.329774754			
86	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	1	1	1	1	135.3072654	2.353072654			
87	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	1	1	1	1	1	137.6603533	2.376603533			
88	0	0	0	0	0	1	1	1	1	1	1	1			0	0	1	1	1	1	1	1	140.036972	2.40036972			
89	0	0	0	0	0	1	1	1	1	1	1	1			0	1	1	1	1	1	1	1	142.437357	2.42437357			
90	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	144.86	2.4486			
91	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	1	1	0	147.3086327	2.473086327			
92	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	1	0	0	149.7817517	2.497817517			
93	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	1	0	0	152.2796019	2.522796019			
94	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	0	0	0	154.8024306	2.548024306			
95	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	0	0	0	0	157.3504875	2.573504875			
96	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	0	0	0	0	0	159.9240251	2.599240251			
97	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	0	0	0	0	0	162.523298	2.62523298			
98	0	0	0	0	0	1	1	1	1	1	1	1			1	1	0	0	0	0	0	0	165.1485637	2.651485637			
99	0	0	0	0	0	1	1	1	1	1	1	1			1	0	0	0	0	0	0	0	167.800082	2.67800082			
100	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	170.48	2.7048			
101	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	0	0	1	173.1848138	2.731848138			
102	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	0	1	1	175.9166758	2.759166758			
103	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	0	1	1	178.6758564	2.786758564			
104	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	0	1	1	1	181.4626288	2.814626288			
105	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	0	1	1	1	1	184.2772689	2.842772689			
106	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	1	1	1	1	1	187.1200554	2.871200554			
107	0	0	0	0	0	1	1	1	1	1	1	1			0	0	0	1	1	1	1	1	189.9912698	2.899912698			
108	0	0	0	0	0	1	1	1	1	1	1	1			0	0	1	1	1	1	1	1	192.8911963	2.928911963			
109	0	0	0	0	0	1	1	1	1	1	1	1			0	1	1	1	1	1	1	1	195.8201221	2.958201221			
110	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	198.78	2.9878			
111	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	1	1	0	201.7677972	3.017677972			
112	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	1	0	0	204.7854724	3.047854724			
113	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	1	0	0	207.8333243	3.078333243			
114	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	1	0	0	0	210.9116547	3.109116547			
115	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	1	0	0	0	0	214.0207685	3.140207685			
116	0	0	0	0	0	1	1	1	1	1	1	1			1	1	1	0	0	0	0	0	217.1609734	3.171609734			
117	0	0	0	0	0	1	1	1	1	1	1	1			1	1	0	0	0	0	0	0	220.3325803	3.203325803			
118	0	0	0	0	0	1	1	1	1	1	1	1			1	1	0	0	0	0	0	0	223.5359033	3.235359033			
119	0	0	0	0	0	1	1	1	1	1	1	1			1	0	0	0	0	0	0	0	226.7712596	3.267712596			
120	1	1	1	1	1	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	230.04	3.3004			

Fig. 3C



**FIG. 4**